



11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

(425) 420-9200 (509) 924-9200

FAX 420-9210

(503) 906-9200

)24-9290

Fra 906-9210 (541) 383-9310 FAX 382-7588

HAIN OF CUSTODY REPORT	Work Order #:	M108
No. 10 April 1985	The state of the s	

CLIENT: BUSIOL	produktions						ICE TO:									TURNAROUND REQUEST in Business Days*				
REPORT TO: ANE	KRAN	AWET	TE	2		BR	45	10										ic & Inorganic Analyses		
ADDRESS: AMCHIT	KA, AK															10 7	5 Petrolei	4 3 2	1 <1	
PHONE: 907.770.	4170	FAX:	10.	09	15	P.O. N	UMBER	: 2	210	90	)				Z	2	4		< 1	
PROJECT NAME:	HITICA	4					REQ	UESTI	ED AN	ALYSES	S				1	ST	D	Please Specify		
PROJECT NUMBER: 24	90																ОТН	ER		
SAMPLED BY: ARK	clam					33										*Turnare	ound Requests	less than standard may incur Ru	sh Charges.	
CLIENT SAMPLE	SAMPL	ING	N	8	3	IJ.S										MATRIX	#OF		NCA WO	
IDENTIFICATION	DATE/I	TIME	9	a	D	8										(W, S, O)	CONT.	COMMENTS	ID	
1.01 Am/tv 4 125L	0/5/01	355	/	2	-											5	2			
2.01AmHV4 13 5L	8/5/01	1400	i fr	~	~					÷	, , , , , , , , , , , , , , , , , , ,					5	2			
3.01 Am HV4 145L	8/5/01	1405	_	/		·			,							S	2			
4.01 AMHV4 155L	8/5/01	14/0	0	~	V	-										S	2			
5.01 AM HUY165C	B/5/01	1415	1	_	~	-										S	2			
6.01 Am HU4175L	8/5/01	1420	-	_	$\sim$	_										S	2			
7.01 AMHV41B5L	8/5/01	1425	M	M	-	1	,									S	1	620 BTex		
8.																		<i>A</i> 200		
9.																				
10.										1 4		,								
11.									, Q											
12.																				
13.				, ,																
14.										7									* x * * * *	
15.											1	0	(				,			
RELINQUISHED BY:	e Kran	well	201	310	1		8/5/0	2/		IVED BY		ug)	rod	Le D	0	0	a b	1	ATE: 05 01	
RELINQUISHED BY:	J Macy	TERM:	11/10		) ——	TIME: DATE:	174	1		NAME:			Na	-70	JYOU	le FIRM:	M	-	ME: 1447 ATE:	
PRINT NAME:		FIRM:				TIME:				NAME:				8		FIRM:			ME:	
ADDITIONAL BEMARKS.					_								77 - 25		-			T T	1	
COC REV 3/99	AVE P	164,00	nF	rm	at	100	Sa	mp	165									TEMP:	AGE OF	
Alexander and the second and the sec		y-value of the same	100000000																4 4 4 4 4	



425.420.9200 fax 425.420.9210

**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

509.924.9200 fax 509.924.9290

Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

541.383.9310 fax 541.382.7588

7 December, 2001

Anne Kranawetter Bristol Environmental & Engineering 2000 W International Airport C#1 Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 08/05/01 14:47. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson

**Environmental Group Leader** 

112

Work Orders included in this report:

M108009



425.420.9200 fax 425.420.9210

Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

509.924.9200 fax 509.924.9290

Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fax 503.906.9210 **Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

**Reported:** 08/13/01 16:44

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMHV412SL	M108009-01	Soil	08/05/01 13:55	08/05/01 14:47
01AMHV413SL	M108009-02	Soil	08/05/01 14:00	08/05/01 14:47
01AMHV414SL	M108009-03	Soil	08/05/01 14:05	08/05/01 14:47
01AMHV415SL	M108009-04	Soil	08/05/01 14:10	08/05/01 14:47
01AMHV416SL	M108009-05	Soil	08/05/01 14:15	08/05/01 14:47
01AMHV417SL	M108009-06	Soil	08/05/01 14:20	08/05/01 14:47
01AMHV418SL	M108009-07	Soil	08/05/01 14:25	08/05/01 14:47

C. O. C. # 206

North Creek Analytical - Mobile Lab



425.420.9200 fax 425.420.9210

Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

509.924.9200 fax 509.924.9290

**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka Project Number: 21090

**Reported:** 08/13/01 16:44

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

# Gasoline Range Organics (n-Hexane to <n-Decane) per AK101 North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMHV412SL (M108009-01) Soil					Sampled: 08	/05/01 Rece	eived: 08/05/	01	
Gasoline Range Organics	ND	12.6	mg/kg dry	50	AK 101	08/06/01	08/06/01	0108017	
Surr: 4-BFB (FID)	87.1 %	50-150							
01AMHV413SL (M108009-02) Soil					Sampled: 08	/05/01 Rece	eived: 08/05/	01	
Gasoline Range Organics	ND	12.9	mg/kg dry	50	AK 101	08/06/01	08/06/01	0108017	
Surr: 4-BFB (FID)	88.2 %	50-150							
01AMHV414SL (M108009-03) Soil					Sampled: 08	/05/01 Rece	eived: 08/05/	01	
Gasoline Range Organics	ND	14.2	mg/kg dry	50	AK 101	08/06/01	08/06/01	0108017	
Surr: 4-BFB (FID)	90.1 %	50-150							
01AMHV415SL (M108009-04) Soil					Sampled: 08	/05/01 Rece	eived: 08/05/	01	
Gasoline Range Organics	ND	6.80	mg/kg dry	50	AK 101	08/06/01	08/06/01	0108017	
Surr: 4-BFB (FID)	88.3 %	50-150							
01AMHV416SL (M108009-05) Soil					Sampled: 08	/05/01 Rece	eived: 08/05/	01	
Gasoline Range Organics	ND	10.9	mg/kg dry	50	AK 101	08/06/01	08/06/01	0108017	
Surr: 4-BFB (FID)	89.3 %	50-150							
01AMHV417SL (M108009-06) Soil					Sampled: 08	/05/01 Rece	eived: 08/05/	01	
Gasoline Range Organics	ND	14.4	mg/kg dry	50	AK 101	08/06/01	08/07/01	0108017	
Surr: 4-BFB (FID)	90.2 %	50-150							
01AMHV418SL (M108009-07RE1) Soil					Sampled: 08	/05/01 Rece	eived: 08/05/	01	
<b>Gasoline Range Organics</b>	22.4	22.3	mg/kg dry	50	AK 101	08/09/01	08/09/01	0108017	A-01
Surr: 4-BFB (FID)	86.3 %	50-150							

North Creek Analytical - Mobile Lab



425.420.9200 fax 425.420.9210

Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

509.924.9200 fax 509.924.9290

**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W International Airport C#1 Project: Amchitka
Project Number: 21090

Reported:

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

08/13/01 16:44

## Diesel Hydrocarbons (C10-C25) and Heavy Oil (C25-C36) per AK102 and AK103 North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMHV412SL (M108009-01) Soil					Sampled: 08/	05/01 Rece	eived: 08/05/	01	
Residual Range Organics	ND	267	mg/kg dry	1	AK102/103	08/07/01	08/08/01	0108018	
Diesel Range Organics	ND	133	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	111 %	50-150							
Surr: Triacontane	109 %	50-150							
01AMHV413SL (M108009-02) Soil					Sampled: 08/	05/01 Rece	eived: 08/05/	01	
Residual Range Organics	ND	263	mg/kg dry	1	AK102/103	08/07/01	08/08/01	0108018	
Diesel Range Organics	ND	132	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	108 %	50-150							
Surr: Triacontane	113 %	50-150							
01AMHV414SL (M108009-03) Soil					Sampled: 08/	05/01 Rece	eived: 08/05/	01	
Residual Range Organics	ND	270	mg/kg dry	1	AK102/103	08/07/01	08/08/01	0108018	
Diesel Range Organics	ND	135	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	101 %	50-150							
Surr: Triacontane	91.2 %	50-150							
01AMHV415SL (M108009-04) Soil					Sampled: 08/	05/01 Rece	eived: 08/05/	01	
Residual Range Organics	ND	265	mg/kg dry	1	AK102/103	08/07/01	08/08/01	0108018	
Diesel Range Organics	ND	133	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	76.4 %	50-150							
Surr: Triacontane	84.4 %	50-150							
01AMHV416SL (M108009-05) Soil					Sampled: 08/	05/01 Rece	eived: 08/05/	01	
Residual Range Organics	ND	263	mg/kg dry	1	AK102/103	08/07/01	08/08/01	0108018	
Diesel Range Organics	ND	132	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	120 %	50-150							
Surr: Triacontane	113 %	50-150							

North Creek Analytical - Mobile Lab



Reported:

425.420.9200 fax 425.420.9210

Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

509.924.9200 fax 509.924.9290 **Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fax 503.906.9210

Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter 08/13/01 16:44

## Diesel Hydrocarbons (C10-C25) and Heavy Oil (C25-C36) per AK102 and AK103 North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMHV417SL (M108009-06) Soil					Sampled: 08/0	05/01 Rece	eived: 08/05/	01	
Residual Range Organics	ND	259	mg/kg dry	1	AK102/103	08/07/01	08/08/01	0108018	
<b>Diesel Range Organics</b>	742	130	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	119 %	50-150							
Surr: Triacontane	136 %	50-150							

North Creek Analytical - Mobile Lab

Styl Lil



425.420.9200 fax 425.420.9210

**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290

Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fax 503.906.9210

**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka
Project Number: 21090

**Reported:** 08/13/01 16:44

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

## BTEX,MTBE and Naphthalene per EPA Method 8021B North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMHV412SL (M108009-01) Soil					Sampled: 08	/05/01 Rece	eived: 08/05/	01	
Benzene	ND	0.0790	mg/kg dry	50	!1B BTEX/M	ΓΙ 08/06/01	08/06/01	0108017	
Toluene	ND	0.316	"	"	"	"	"	"	
Ethylbenzene	ND	0.316	"	"	"	"	"	"	
Xylenes (total)	ND	0.632	"	"	"	"	"	"	
Naphthalene	ND	3.16	"	"	"	"	"	"	
Surr: 4-BFB	86.2 %	50-150							
01AMHV413SL (M108009-02) Soil					Sampled: 08	/05/01 Rece	eived: 08/05/	01	
Benzene	ND	0.0807	mg/kg dry	50	!1B BTEX/M	ΓΙ 08/06/01	08/06/01	0108017	
Toluene	ND	0.323	"	"	"	"	"	"	
Ethylbenzene	ND	0.323	"	"	"	"	"	"	
Xylenes (total)	ND	0.646	"	"	"	"	"	"	
Naphthalene	ND	3.23	"	"	"	"	"	"	
Surr: 4-BFB	86.2 %	50-150							
01AMHV414SL (M108009-03) Soil					Sampled: 08	/05/01 Rece	eived: 08/05/	01	
Benzene	ND	0.0885	mg/kg dry	50	!1B BTEX/M	ΓΙ 08/06/01	08/06/01	0108017	
Toluene	ND	0.354	"	"	"	"	"	"	
Ethylbenzene	ND	0.354	"	"	"	"	"	"	
Xylenes (total)	ND	0.708	"	"	"	"	"	"	
Naphthalene	ND	3.54	"	"	"	"	"	"	
Surr: 4-BFB	88.3 %	50-150							
01AMHV415SL (M108009-04) Soil					Sampled: 08/	/05/01 Rece	eived: 08/05/	01	
Benzene	0.0495	0.0425	mg/kg dry	50	!1B BTEX/M	ГІ 08/06/01	08/06/01	0108017	
Toluene	ND	0.170	"	"	"	"	"	"	
Ethylbenzene	ND	0.170	"	"	"	"	"	"	
Xylenes (total)	ND	0.340	"	"	"	"	"	"	
Naphthalene	ND	1.70	"	"	"	"	"	"	
Surr: 4-BFB	86.4 %	50-150							

North Creek Analytical - Mobile Lab



425.420.9200 fax 425.420.9210

Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

509.924.9200 fax 509.924.9290

**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

**Reported:** 08/13/01 16:44

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter

### BTEX,MTBE and Naphthalene per EPA Method 8021B North Creek Analytical - Mobile Lab

	•	Titaly tice	1,10	one zuo				
Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
				Sampled: 08/	/05/01 Rece	eived: 08/05/	01	
ND	0.0681	mg/kg dry	50	!1B BTEX/MT	ΓΙ 08/06/01	08/06/01	0108017	
ND	0.273	"	"	"	"	"	"	
ND	0.273	"	"	"	"	"	"	
ND	0.545	"	"	"	"	"	"	
ND	2.73	"	"	"	"	"	"	
88.7 %	50-150							
				Sampled: 08/	/05/01 Rece	eived: 08/05/	01	
ND	0.0901	mg/kg dry	50	!1B BTEX/MT	ΓΙ 08/06/01	08/07/01	0108017	
ND	0.360	"	"	"	"	"	"	
ND	0.360	"	"	"	"	"	"	
ND	0.721	"	"	"	"	"	"	
ND	3.60	"	"	"	"	"	"	
87.6 %	50-150							
				Sampled: 08/	/05/01 Rece	eived: 08/05/	01	
ND	0.139	mg/kg dry	50	!1B BTEX/MT	ΓΙ 08/09/01	08/09/01	0108017	
ND	0.556	"	"	"	"	"	"	
ND	0.556	"	"	"	"	"	"	
ND	1.11	"	"	"	"	"	"	
ND	5.56	"	"	"	"	"	"	
83.5 %	50-150							
	Result  ND	Result   Reporting   Limit	Result   Reporting   Limit   Units	Result   Limit   Units   Dilution	ND	Result	Result   Limit   Units   Dilution   Method   Prepared   Analyzed	Result

North Creek Analytical - Mobile Lab



425.420.9200 fax 425.420.9210

Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

509.924.9200 fax 509.924.9290

**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka
Project Number: 21090

Reported:

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

08/13/01 16:44

## Physical Parameters per APHA/ASTM/EPA Methods North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit Units	Dilution	Method Prepared	Analyzed Batch Notes
01AMHV412SL (M108009-01) Soil				Sampled: 08/05/01 Receiv	ed: 08/05/01
% Solids	99.2	0.0100 % by Weight	1	Gravimetric 08/07/01	08/08/01 0108019
01AMHV413SL (M108009-02) Soil				Sampled: 08/05/01 Receiv	ed: 08/05/01
% Solids	99.4	0.0100 % by Weight	1	Gravimetric 08/07/01	08/08/01 0108019
01AMHV414SL (M108009-03) Soil				Sampled: 08/05/01 Receiv	ed: 08/05/01
% Solids	98.8	0.0100 % by Weight	1	Gravimetric 08/07/01	08/08/01 0108019
01AMHV415SL (M108009-04) Soil				Sampled: 08/05/01 Receiv	ed: 08/05/01
% Solids	99.7	0.0100 % by Weight	1	Gravimetric 08/07/01	08/08/01 0108019
01AMHV416SL (M108009-05) Soil				Sampled: 08/05/01 Receiv	ed: 08/05/01
% Solids	98.9	0.0100 % by Weight	1	Gravimetric 08/07/01	08/08/01 0108019
01AMHV417SL (M108009-06) Soil				Sampled: 08/05/01 Receiv	ed: 08/05/01
% Solids	99.2	0.0100 % by Weight	1	Gravimetric 08/07/01	08/08/01 0108019
01AMHV418SL (M108009-07) Soil				Sampled: 08/05/01 Receiv	ed: 08/05/01
% Solids	100	0.0100 % by Weight	1	Gravimetric 08/07/01	08/08/01 0108019

North Creek Analytical - Mobile Lab



425.420.9200 fax 425.420.9210

Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

509.924.9200 fax 509.924.9290

Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fax 503.906.9210 **Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka Project Number: 21090

Reported:

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

08/13/01 16:44

### Gasoline Range Organics (n-Hexane to <n-Decane) per AK101 - Quality Control

### North Creek Analytical - Mobile Lab

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch 0108017 - MeOH Extraction

Blank (0108017-BLK1)		Prepared & Analyzed: 08/06/01								
Gasoline Range Organics	ND	4.00 mg/kg wet								
Surr: 4-BFB (FID)	2.26	n	2.50	90.4	50-150					
LCS (0108017-BS2)			Prepared &	Analyzed: 08/0	6/01					
Gasoline Range Organics	26.9	4.00 mg/kg wet	25.0	108	50-150					
Surr: 4-BFB (FID)	9.06	"	10.0	90.6	50-150					

North Creek Analytical - Mobile Lab



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223 425.420.9200 fax 425.420.9210

Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290

Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fax 503.906.9210 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Reported:

08/13/01 16:44

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter

#### Diesel Hydrocarbons (C10-C25) and Heavy Oil (C25-C36) per AK102 and AK103 - Quality Control

North Creek Analytical - Mobile Lab										
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0108018 - 3545 ASE										

Blank (0108018-BLK1)				Prepared: 08/07/01 Analyzed: 08/08/01				
Residual Range Organics	ND	270 mg/kg wet	_					
Diesel Range Organics	ND	135 "						
Surr: 1-Chlorooctadecane	27.6	"	23.7		116	50-150		
Surr: Triacontane	26.3	"	23.5		112	50-150		
LCS (0108018-BS1)			Prepared: 08/07/01 Analyzed: 08/08/01					
Diesel Range Organics	1440	135 mg/kg wet	1250		115	75-125		
Surr: 1-Chlorooctadecane	29.6	n .	23.7		125	50-150		
Surr: Triacontane	29.2	"	23.5		124	50-150		
LCS (0108018-BS2)		Prepared: 08/07/01 Analyzed: 08/08/01						
Residual Range Organics	612	270 mg/kg wet	625		97.9	60-120		
Surr: 1-Chlorooctadecane	26.3	"	23.7		111	50-150		
Surr: Triacontane	31.6	"	23.5		134	50-150		
LCS Dup (0108018-BSD1)			Prepare	d: 08/07/01	Analyz	zed: 08/08/0	1	
Diesel Range Organics	1460	135 mg/kg wet	1250		117	75-125	1.38	20
Surr: 1-Chlorooctadecane	30.9	"	23.7		130	50-150		
Surr: Triacontane	29.8	"	23.5		127	50-150		
LCS Dup (0108018-BSD2)	Prepared: 08/07/01 Analyzed: 08/08/01							
Residual Range Organics	621	270 mg/kg wet	625		99.4	60-120	1.46	25
Surr: 1-Chlorooctadecane	26.5	"	23.7		112	50-150		
Surr: Triacontane	32.6	"	23.5		139	50-150		
Matrix Spike (0108018-MS1)	Sour	ce: M108009-01	Prepare	d: 08/07/01	Analyz	zed: 08/08/0	1	
Diesel Range Organics	1050	129 mg/kg dry	1200	ND	87.5	0-200		
Surr: 1-Chlorooctadecane	23.5	"	22.8		103	50-150		
Surr: Triacontane	20.8	"	22.6		92.0	50-150		

North Creek Analytical - Mobile Lab



425.420.9200 fax 425.420.9210

Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

509.924.9200 fax 509.924.9290

Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fax 503.906.9210

Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka Project Number: 21090

Reported:

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

08/13/01 16:44

#### BTEX,MTBE and Naphthalene per EPA Method 8021B - Quality Control

### **North Creek Analytical - Mobile Lab**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 0108017 - MeOH Extraction					
Blank (0108017-BLK1)			Prepared & A	nalyzed: 08/06/01	
Benzene	ND	0.0250 mg/kg wet			
Toluene	ND	0.100 "			
Ethylbenzene	ND	0.100 "			
Xylenes (total)	ND	0.200 "			
Naphthalene	ND	1.00 "			
Surr: 4-BFB	2.21	"	2.50	88.4 50-150	
LCS (0108017-BS1)			Prepared & A	nalyzed: 08/06/01	
Benzene	1.94	0.0250 mg/kg wet	2.50	77.6 69-138	
Toluene	2.05	0.100 "	2.50	82.0 53-151	
Ethylbenzene	2.06	0.100 "	2.50	82.4 61-141	
Xylenes (total)	6.25	0.200 "	7.50	83.3 62-141	
Naphthalene	2.84	1.00 "	2.50	114 65-135	
Surr: 4-BFB	2.30	"	2.50	92.0 50-150	

North Creek Analytical - Mobile Lab



425.420.9200 fax 425.420.9210 **Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

509.924.9200 fax 509.924.9290

Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fax 503.906.9210

Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

**Reported:** 08/13/01 16:44

Project Manager: Anne Kranawetter

#### **Notes and Definitions**

A-01 The hydrocarbon concentration in this sample is predominately due to an individual peak eluting in the gasoline carbon range.

DET Analyte DETECTED

Anchorage, AK 99502-1116

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

North Creek Analytical - Mobile Lab

### **Items for Project Manager Review**

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
			Report recreated from: \\sisters\elmnt\Report\M108009 FINAL 08 13 01 1644.mdb
0108017-BLK1	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported
0108017-BS2	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported
0108018-BLK1	AK102/103	Residual Range Organics	Additional analyte reported
0108018-BS2	AK102/103	Residual Range Organics	Additional analyte reported
0108018-BSD2	AK102/103	Residual Range Organics	Additional analyte reported
M108009-01	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported
M108009-01	AK102/103	Residual Range Organics	Additional analyte reported
M108009-02	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported
M108009-02	AK102/103	Residual Range Organics	Additional analyte reported
M108009-03	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported
M108009-03	AK102/103	Residual Range Organics	Additional analyte reported
M108009-04	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported
M108009-04	AK102/103	Residual Range Organics	Additional analyte reported
M108009-05	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported
M108009-05	AK102/103	Residual Range Organics	Additional analyte reported
M108009-06	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported
M108009-06	AK102/103	Residual Range Organics	Additional analyte reported
M108009-07RE1	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported
M108009-07RE1	AK101 (GRO)	Gasoline Range Organics	A-01